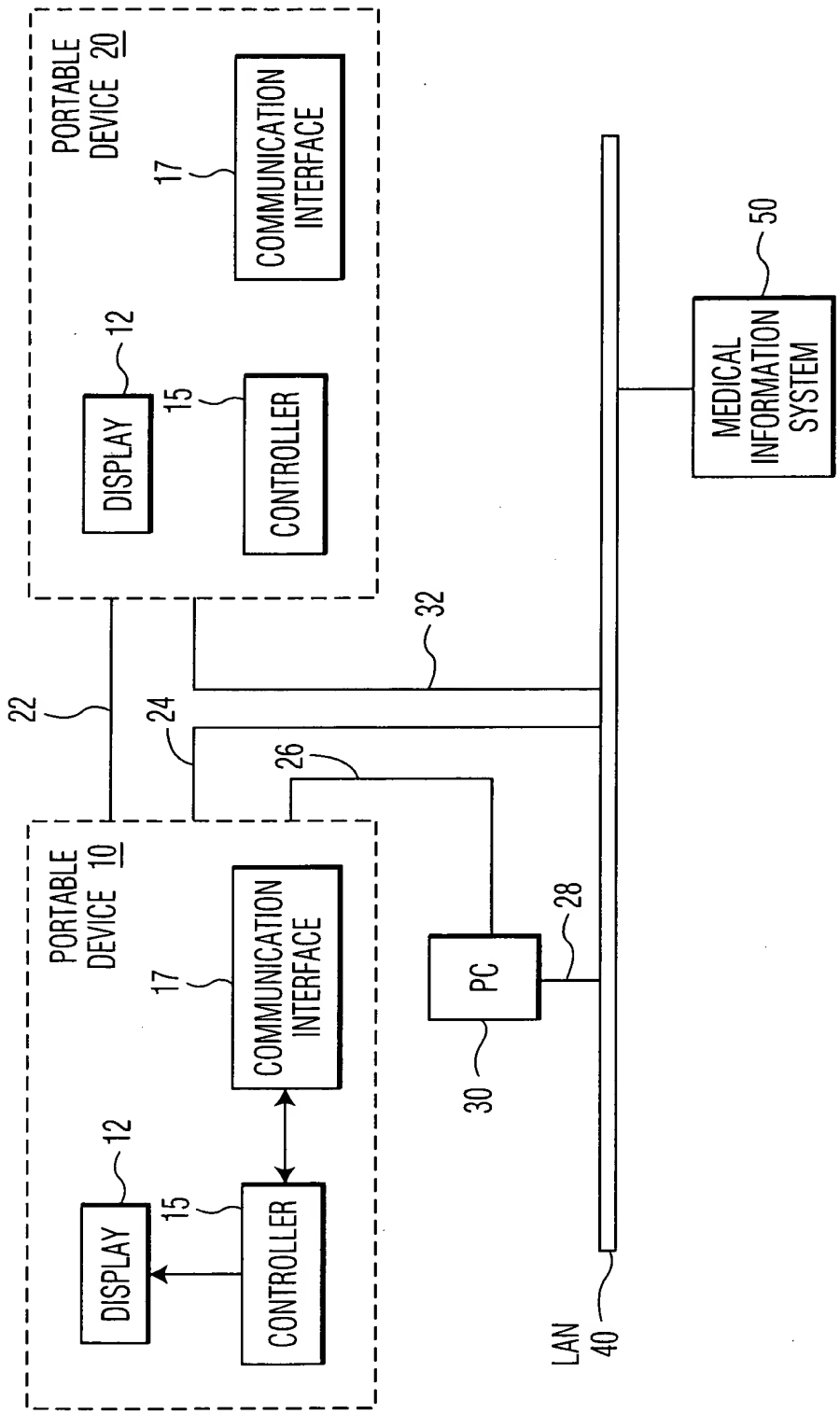
PORTABLE DEVICE 20
17
COMMUNICATION INTERFACE
12
DISPLAY
15
CONTROLLER
22
24
26
32
50
MEDICAL INFORMATION SYSTEM
PORTABLE DEVICE 10
17
COMMUNICATION INTERFACE
12
DISPLAY
15
CONTROLLER
PC
28
30
LAN
40

FIG. 1

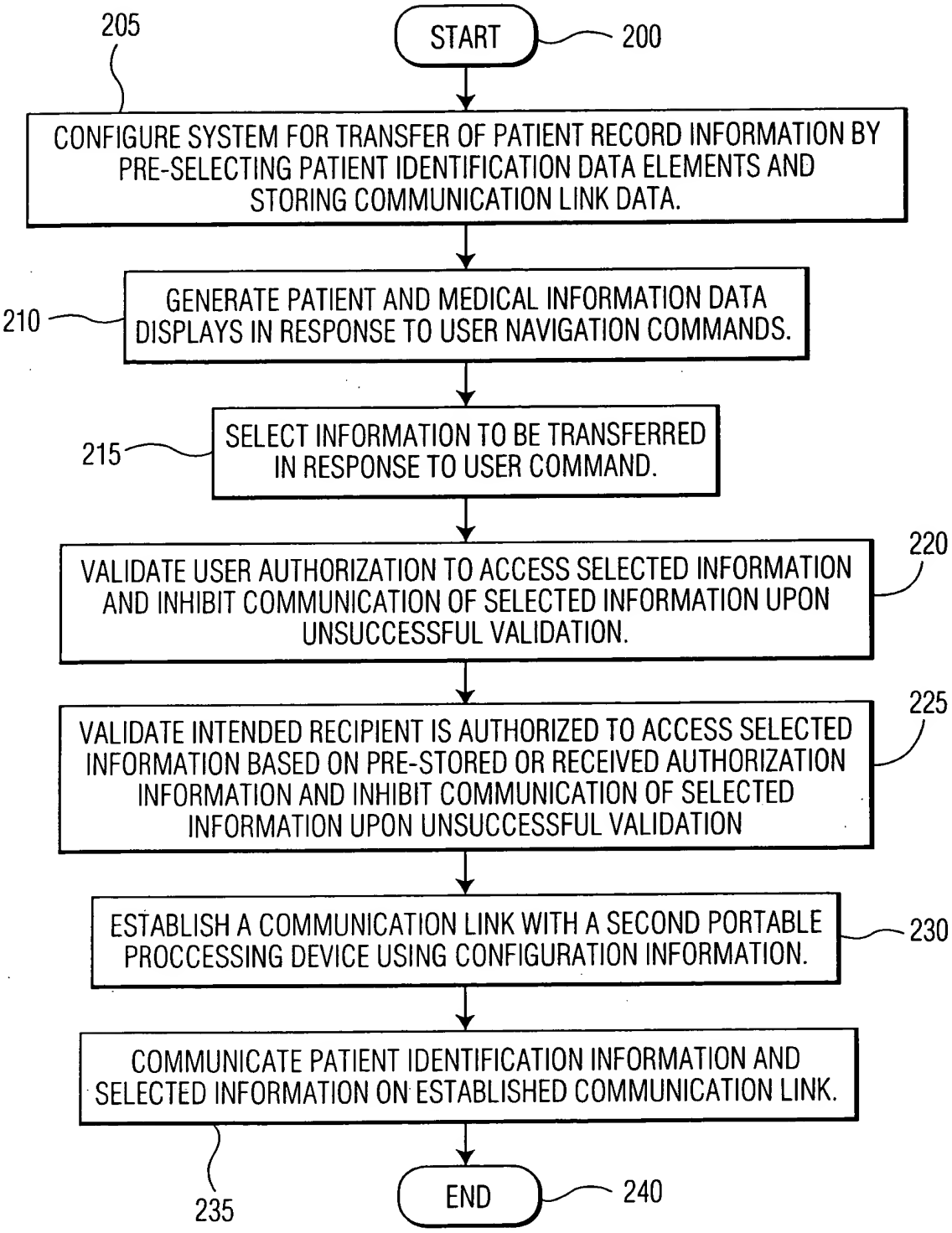
START
200
205
CONFIGURE SYSTEM FOR TRANSFER OF PATIENT RECORD INFORMATION BY PRE-SELECTING PATIENT IDENTIFICATION DATA ELEMENTS AND STORING COMMUNICATION LINK DATA.
210
GENERATE PATIENT AND MEDICAL INFORMATION DATA DISPLAYS IN RESPONSE TO USER NAVIGATION COMMANDS.
215
SELECT INFORMATION TO BE TRANSFERRED IN RESPONSE TO USER COMMAND.
220
VALIDATE USER AUTHORIZATION TO ACCESS SELECTED INFORMATION AND INHIBIT COMMUNICATION OF SELECTED INFORMATION UPON UNSUCCESSFUL VALIDATION.
225
VALIDATE INTENDED RECIPIENT IS AUTHORIZED TO ACCESS SELECTED INFORMATION BASED ON PRE-STORED OR RECEIVED AUTHORIZATION INFORMATION AND INHIBIT COMMUNICATION OF SELECTED INFORMATION UPON UNSUCCESSFUL VALIDATION
230
ESTABLISH A COMMUNICATION LINK WITH A SECOND PORTABLE PROCCESSING DEVICE USING CONFIGURATION INFORMATION.
235
COMMUNICATE PATIENT IDENTIFICATION INFORMATION AND SELECTED INFORMATION ON ESTABLISHED COMMUNICATION LINK.
240
END

FIG. 2

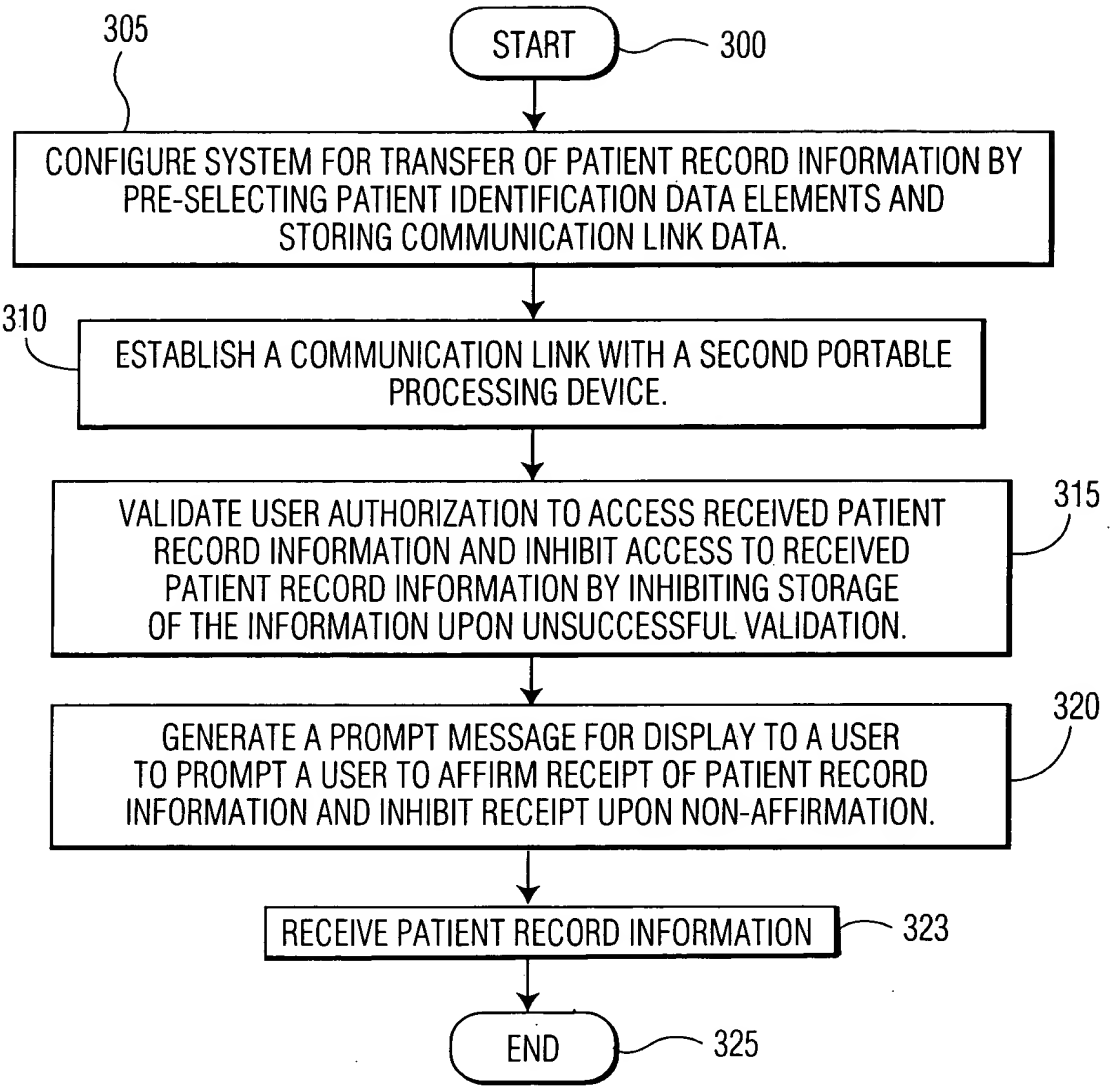
START
300
305
CONFIGURE SYSTEM FOR TRANSFER OF PATIENT RECORD INFORMATION BY PRE-SELECTING PATIENT IDENTIFICATION DATA ELEMENTS AND STORING COMMUNICATION LINK DATA.
310
ESTABLISH A COMMUNICATION LINK WITH A SECOND PORTABLE PROCESSING DEVICE.
VALIDATE USER AUTHORIZATION TO ACCESS RECEIVED PATIENT RECORD INFORMATION AND INHIBIT ACCESS TO RECEIVED PATIENT RECORD INFORMATION BY INHIBITING STORAGE OF THE INFORMATION UPON UNSUCCESSFUL VALIDATION.
315
GENERATE A PROMPT MESSAGE FOR DISPLAY TO A USER TO PROMPT A USER TO AFFIRM RECEIPT OF PATIENT RECORD INFORMATION AND INHIBIT RECEIPT UPON NON-AFFIRMATION.
320
RECEIVE PATIENT RECORD INFORMATION
323
END
325

FIG. 3

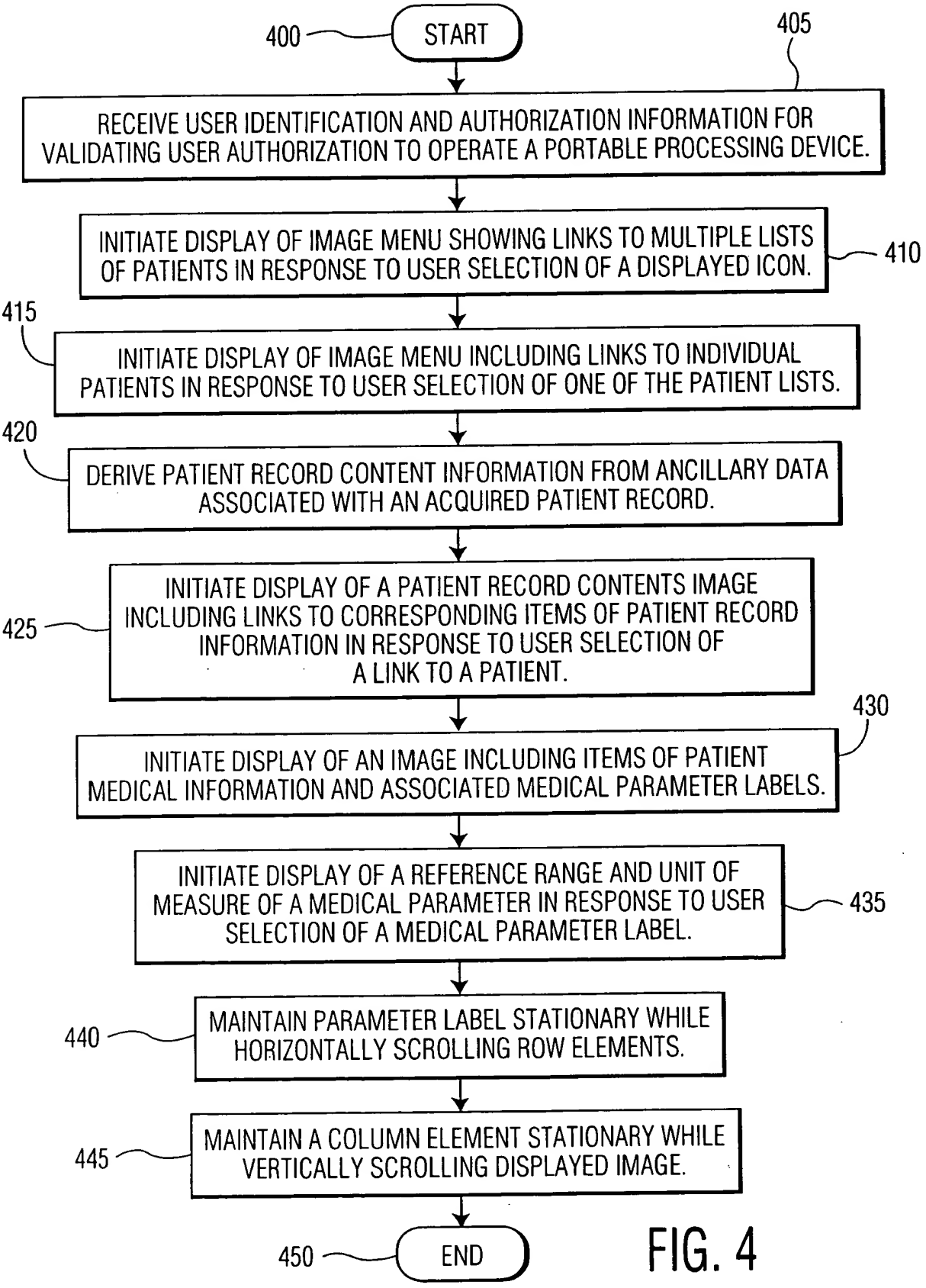
400
START
405
RECEIVE USER IDENTIFICATION AND AUTHORIZATION INFORMATION FOR VALIDATING USER AUTHORIZATION TO OPERATE A PORTABLE PROCESSING DEVICE.
INITIATE DISPLAY OF IMAGE MENU SHOWING LINKS TO MULTIPLE LISTS OF PATIENTS IN RESPONSE TO USER SELECTION OF A DISPLAYED ICON.
410
415
INITIATE DISPLAY OF IMAGE MENU INCLUDING LINKS TO INDIVIDUAL PATIENTS IN RESPONSE TO USER SELECTION OF ONE OF THE PATIENT LISTS.
420
DERIVE PATIENT RECORD CONTENT INFORMATION FROM ANCILLARY DATA ASSOCIATED WITH AN ACQUIRED PATIENT RECORD.
425
INITIATE DISPLAY OF A PATIENT RECORD CONTENTS IMAGE INCLUDING LINKS TO CORRESPONDING ITEMS OF PATIENT RECORD INFORMATION IN RESPONSE TO USER SELECTION OF A LINK TO A PATIENT.
430
INITIATE DISPLAY OF AN IMAGE INCLUDING ITEMS OF PATIENT MEDICAL INFORMATION AND ASSOCIATED MEDICAL PARAMETER LABELS.
INITIATE DISPLAY OF A REFERENCE RANGE AND UNIT OF MEASURE OF A MEDICAL PARAMETER IN RESPONSE TO USER SELECTION OF A MEDICAL PARAMETER LABEL.
435
440
MAINTAIN PARAMETER LABEL STATIONARY WHILE HORIZONTALLY SCROLLING ROW ELEMENTS.
445
MAINTAIN A COLUMN ELEMENT STATIONARY WHILE VERTICALLY SCROLLING DISPLAYED IMAGE.
450
END

FIG. 4

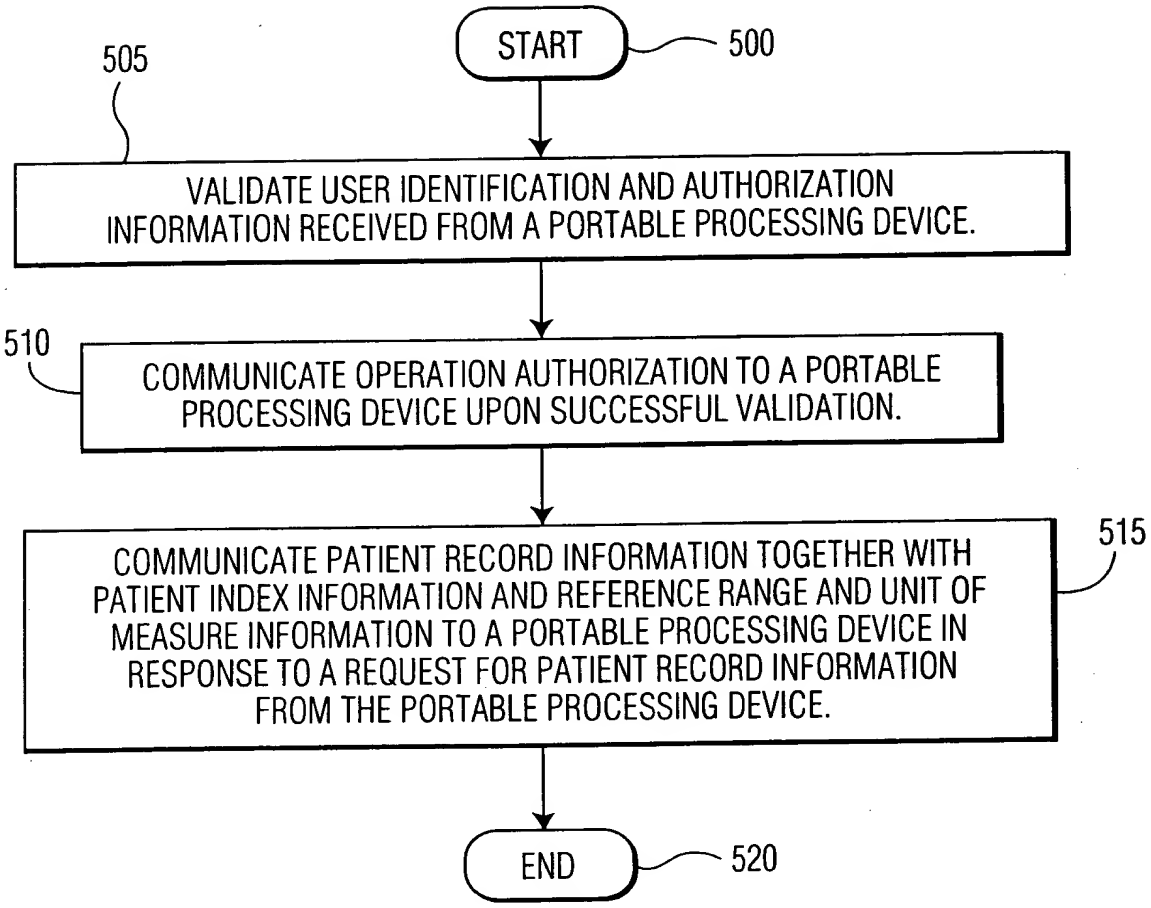
START
500
505
VALIDATE USER IDENTIFICATION AND AUTHORIZATION INFORMATION RECEIVED FROM A PORTABLE PROCESSING DEVICE.
510
COMMUNICATE OPERATION AUTHORIZATION TO A PORTABLE PROCESSING DEVICE UPON SUCCESSFUL VALIDATION.
515
COMMUNICATE PATIENT RECORD INFORMATION TOGETHER WITH PATIENT INDEX INFORMATION AND REFERENCE RANGE AND UNIT OF MEASURE INFORMATION TO A PORTABLE PROCESSING DEVICE IN RESPONSE TO A REQUEST FOR PATIENT RECORD INFORMATION FROM THE PORTABLE PROCESSING DEVICE.
END
520

FIG. 5

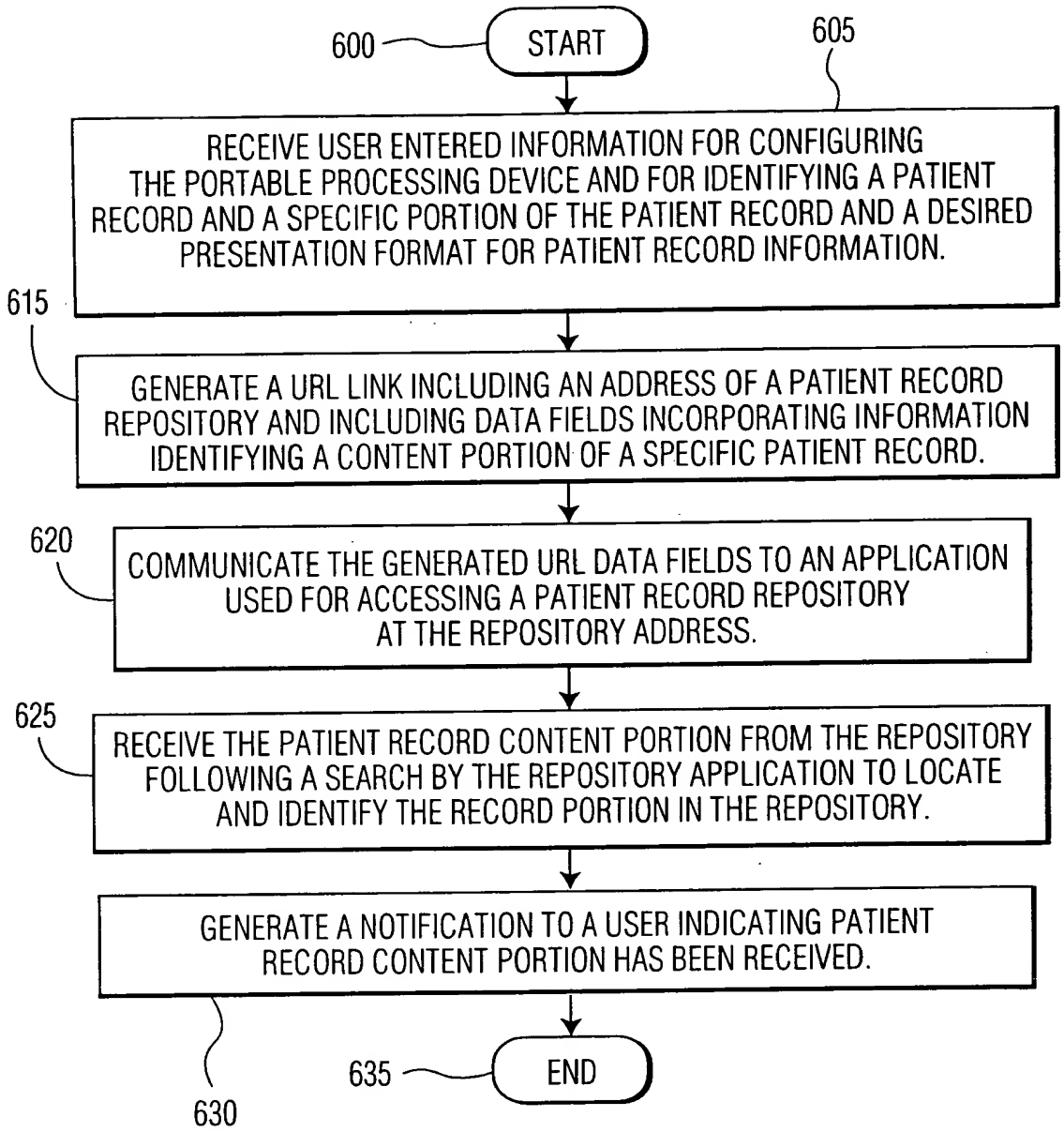
600
START
605
RECEIVE USER ENTERED INFORMATION FOR CONFIGURING THE PORTABLE PROCESSING DEVICE AND FOR IDENTIFYING A PATIENT RECORD AND A SPECIFIC PORTION OF THE PATIENT RECORD AND A DESIRED PRESENTATION FORMAT FOR PATIENT RECORD INFORMATION.
615
GENERATE A URL LINK INCLUDING AN ADDRESS OF A PATIENT RECORD REPOSITORY AND INCLUDING DATA FIELDS INCORPORATING INFORMATION IDENTIFYING A CONTENT PORTION OF A SPECIFIC PATIENT RECORD.
620
COMMUNICATE THE GENERATED URL DATA FIELDS TO AN APPLICATION USED FOR ACCESSING A PATIENT RECORD REPOSITORY AT THE REPOSITORY ADDRESS.
625
RECEIVE THE PATIENT RECORD CONTENT PORTION FROM THE REPOSITORY FOLLOWING A SEARCH BY THE REPOSITORY APPLICATION TO LOCATE AND IDENTIFY THE RECORD PORTION IN THE REPOSITORY.
GENERATE A NOTIFICATION TO A USER INDICATING PATIENT RECORD CONTENT PORTION HAS BEEN RECEIVED.
630
635
END

FIG. 6

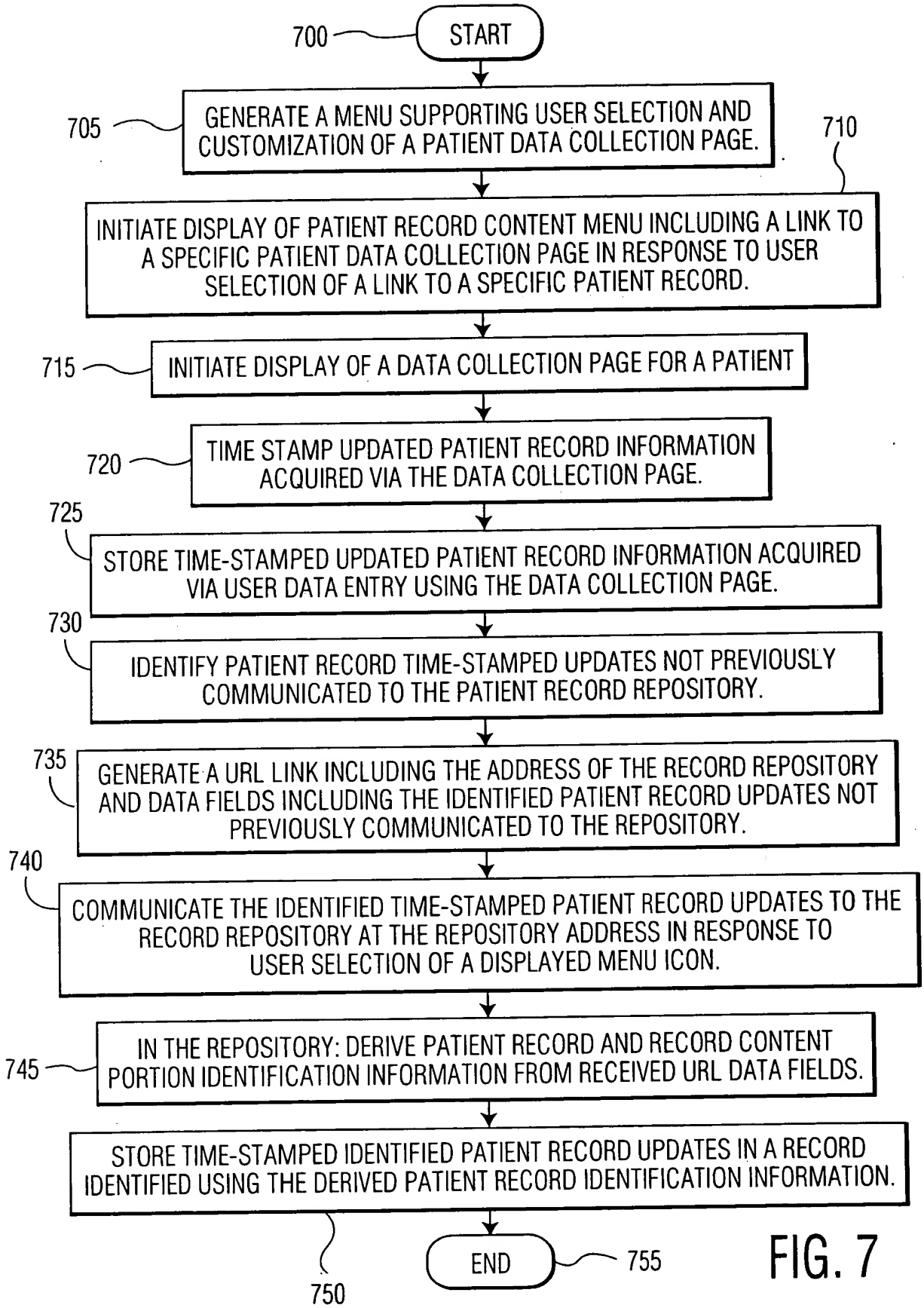
700
START
705
GENERATE A MENU SUPPORTING USER SELECTION AND CUSTOMIZATION OF A PATIENT DATA COLLECTION PAGE.
710
INITIATE DISPLAY OF PATIENT RECORD CONTENT MENU INCLUDING A LINK TO A SPECIFIC PATIENT DATA COLLECTION PAGE IN RESPONSE TO USER SELECTION OF A LINK TO A SPECIFIC PATIENT RECORD.
715
INITIATE DISPLAY OF A DATA COLLECTION PAGE FOR A PATIENT
720
TIME STAMP UPDATED PATIENT RECORD INFORMATION ACQUIRED VIA THE DATA COLLECTION PAGE.
725
STORE TIME-STAMPED UPDATED PATIENT RECORD INFORMATION ACQUIRED VIA USER DATA ENTRY USING THE DATA COLLECTION PAGE.
730
IDENTIFY PATIENT RECORD TIME-STAMPED UPDATES NOT PREVIOUSLY COMMUNICATED TO THE PATIENT RECORD REPOSITORY.
735
GENERATE A URL LINK INCLUDING THE ADDRESS OF THE RECORD REPOSITORY AND DATA FIELDS INCLUDING THE IDENTIFIED PATIENT RECORD UPDATES NOT PREVIOUSLY COMMUNICATED TO THE REPOSITORY.
740
COMMUNICATE THE IDENTIFIED TIME-STAMPED PATIENT RECORD UPDATES TO THE RECORD REPOSITORY AT THE REPOSITORY ADDRESS IN RESPONSE TO USER SELECTION OF A DISPLAYED MENU ICON.
745
IN THE REPOSITORY: DERIVE PATIENT RECORD AND RECORD CONTENT PORTION IDENTIFICATION INFORMATION FROM RECEIVED URL DATA FIELDS.
STORE TIME-STAMPED IDENTIFIED PATIENT RECORD UPDATES IN A RECORD IDENTIFIED USING THE DERIVED PATIENT RECORD IDENTIFICATION INFORMATION.
750
END
755

FIG. 7

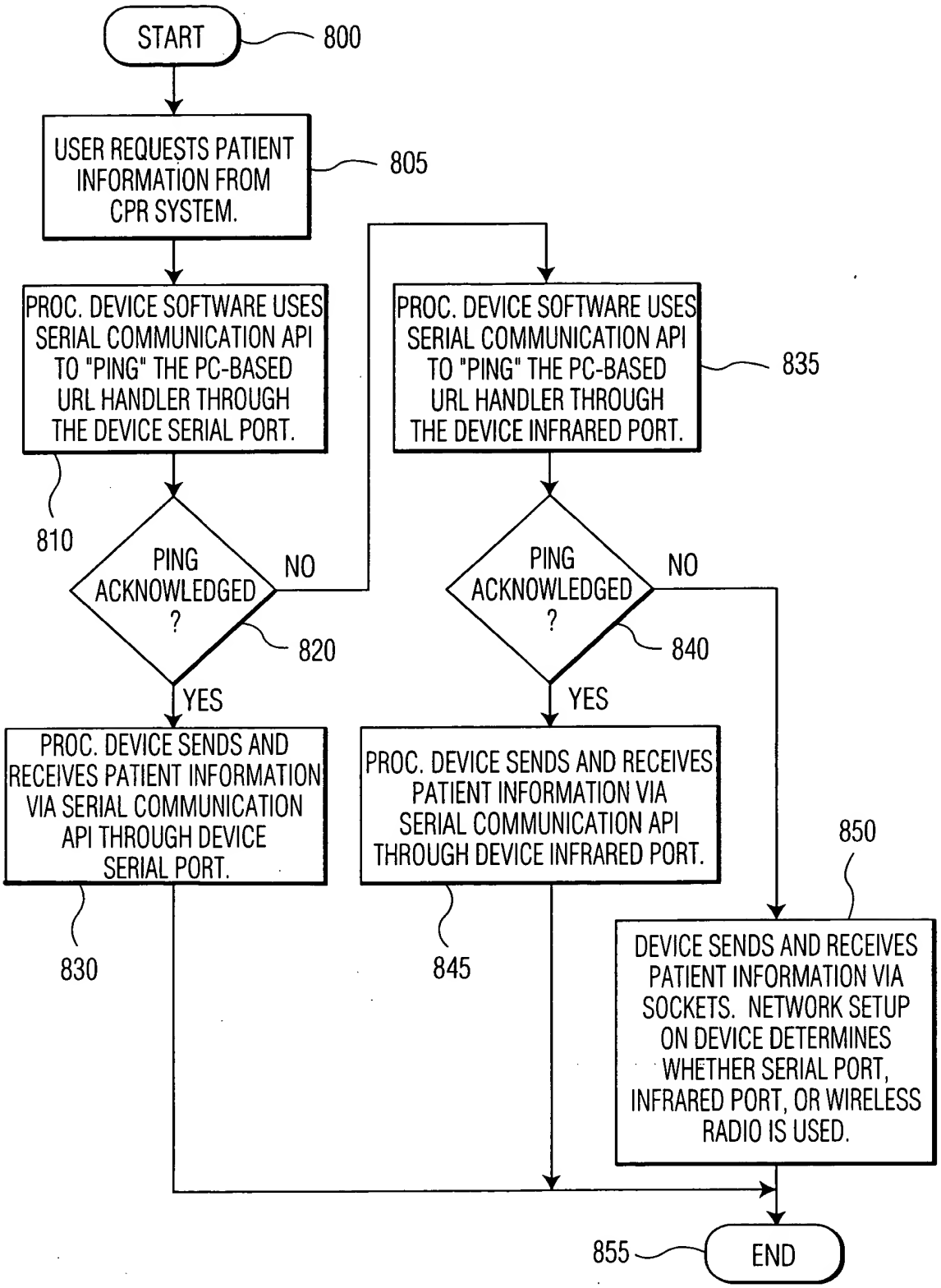
START
800
USER REQUESTS PATIENT INFORMATION FROM CPR SYSTEM.
805
PROC. DEVICE SOFTWARE USES SERIAL COMMUNICATION API TO "PING" THE PC-BASED URL HANDLER THROUGH THE DEVICE SERIAL PORT.
810
PING ACKNOWLEDGED ?
820
NO
YES
PROC. DEVICE SENDS AND RECEIVES PATIENT INFORMATION VIA SERIAL COMMUNICATION API THROUGH DEVICE SERIAL PORT.
830
PROC. DEVICE SOFTWARE USES SERIAL COMMUNICATION API TO "PING" THE PC-BASED URL HANDLER THROUGH THE DEVICE INFRARED PORT.
835
PING ACKNOWLEDGED ?
840
NO
YES
PROC. DEVICE SENDS AND RECEIVES PATIENT INFORMATION VIA SERIAL COMMUNICATION API THROUGH DEVICE INFRARED PORT.
845
850
DEVICE SENDS AND RECEIVES PATIENT INFORMATION VIA SOCKETS. NETWORK SETUP ON DEVICE DETERMINES WHETHER SERIAL PORT, INFRARED PORT, OR WIRELESS RADIO IS USED.
855
END

FIG. 8B

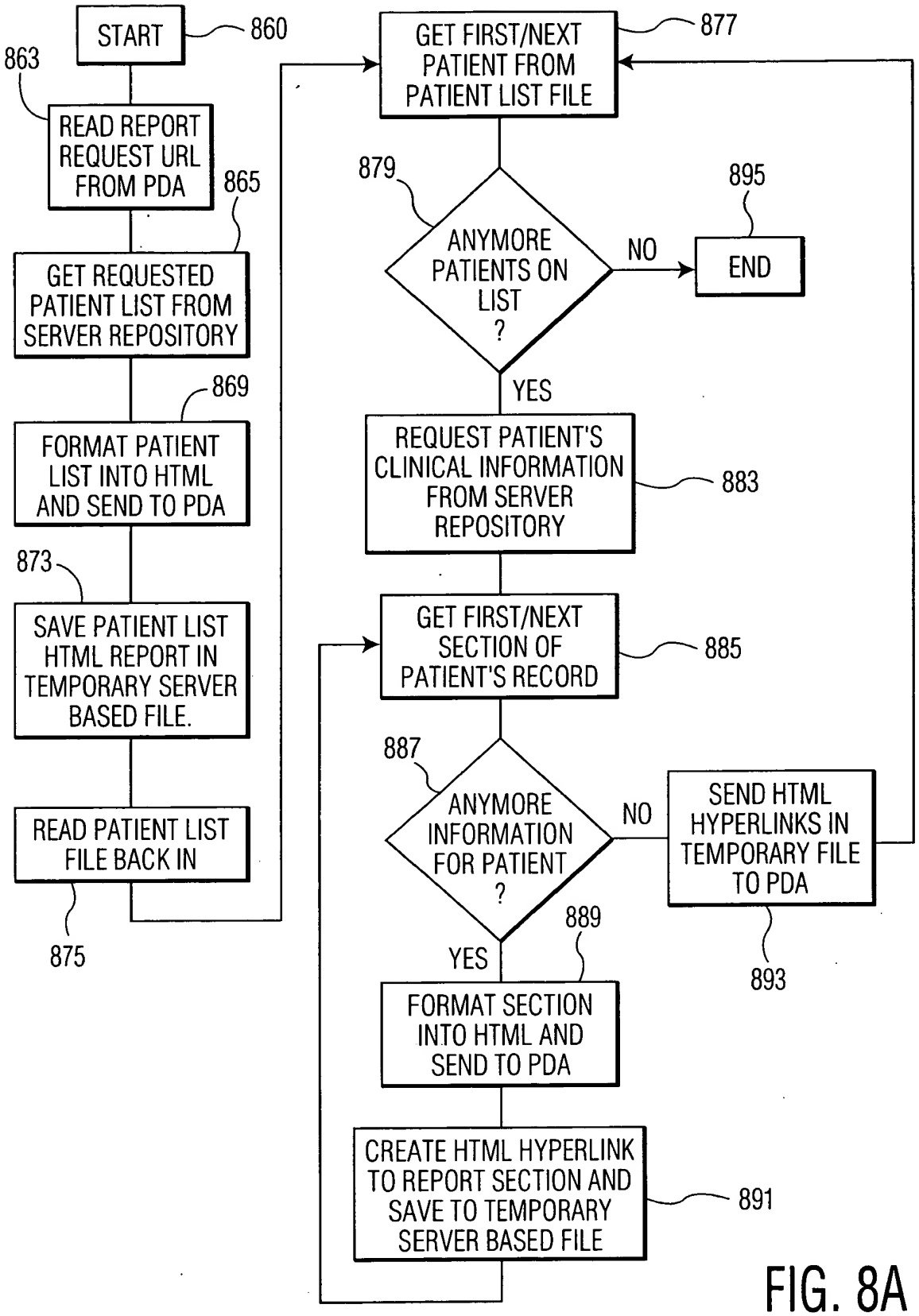
START
860
863
READ REPORT REQUEST URL FROM PDA
865
GET REQUESTED PATIENT LIST FROM SERVER REPOSITORY
869
FORMAT PATIENT LIST INTO HTML AND SEND TO PDA
873
SAVE PATIENT LIST HTML REPORT IN TEMPORARY SERVER BASED FILE.
READ PATIENT LIST FILE BACK IN
875
GET FIRST/NEXT PATIENT FROM PATIENT LIST FILE
877
879
ANYMORE PATIENTS ON LIST ?
NO
895
END
YES
REQUEST PATIENT'S CLINICAL INFORMATION FROM SERVER REPOSITORY
883
GET FIRST/NEXT SECTION OF PATIENT'S RECORD
885
887
ANYMORE INFORMATION FOR PATIENT ?
NO
SEND HTML HYPERLINKS IN TEMPORARY FILE TO PDA
893
YES
889
FORMAT SECTION INTO HTML AND SEND TO PDA
CREATE HTML HYPERLINK TO REPORT SECTION AND SAVE TO TEMPORARY SERVER BASED FILE
891

FIG. 8A

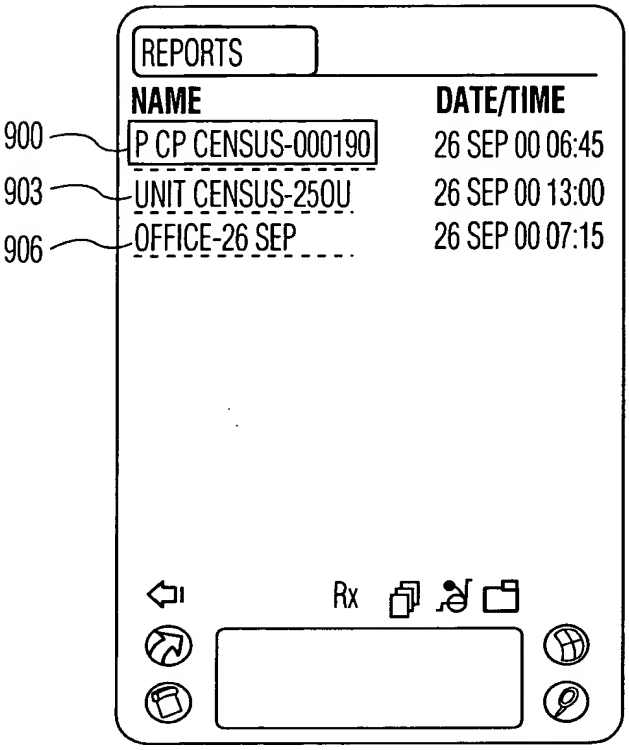

FIG. 9

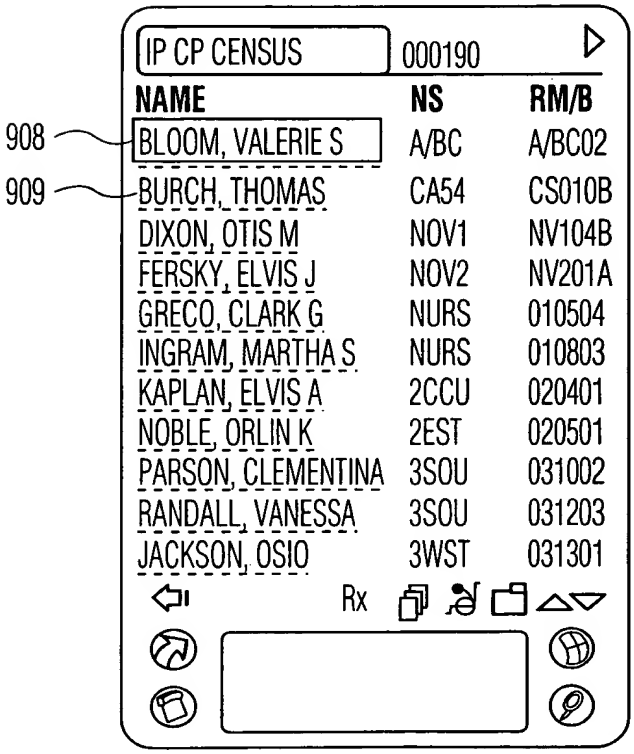

FIG. 10

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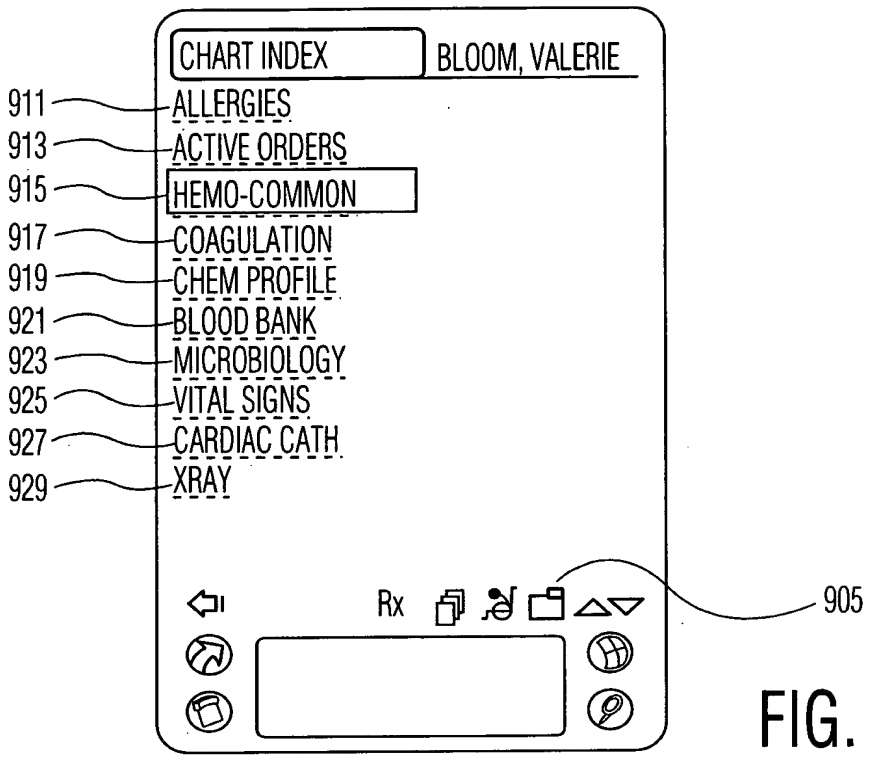
CHART INDEX
BLOOM, VALERIE
911
ALLERGIES
913
ACTIVE ORDERS
915
HEMO-COMMON
917
COAGULATION
919
CHEM PROFILE
921
BLOOD BANK
923
MICROBIOLOGY
925
VITAL SIGNS
927
CARDIAC CATH
929
XRAY
Rx
905

FIG. 11

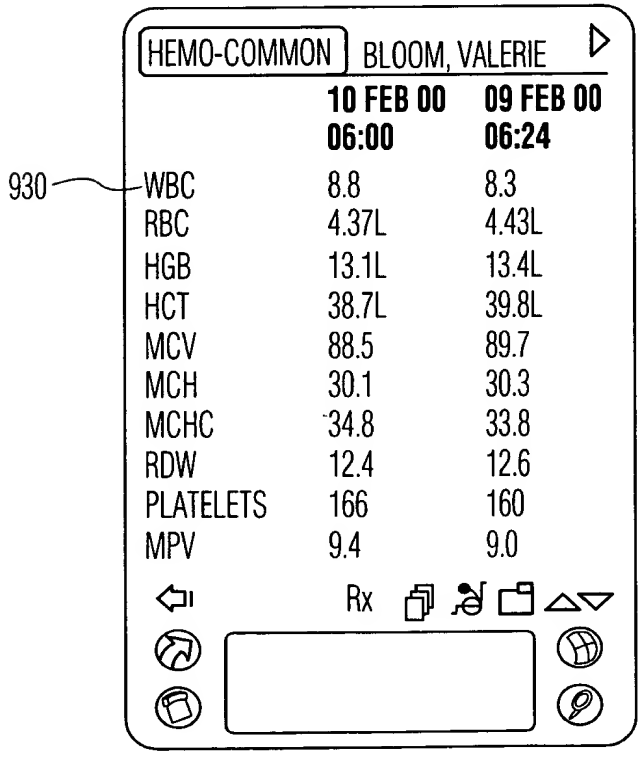
HEMO-COMMON
BLOOM, VALERIE
10 FEB 00 06:00
09 FEB 00 06:24
930
WBC 8.8 8.3
RBC 4.37L 4.43L
HGB 13.1L 13.4L
HCT 38.7L 39.8L
MCV 88.5 89.7
MCH 30.1 30.3
MCHC 34.8 33.8
RDW 12.4 12.6
PLATELETS 166 160
MPV 9.4 9.0
Rx

FIG. 12

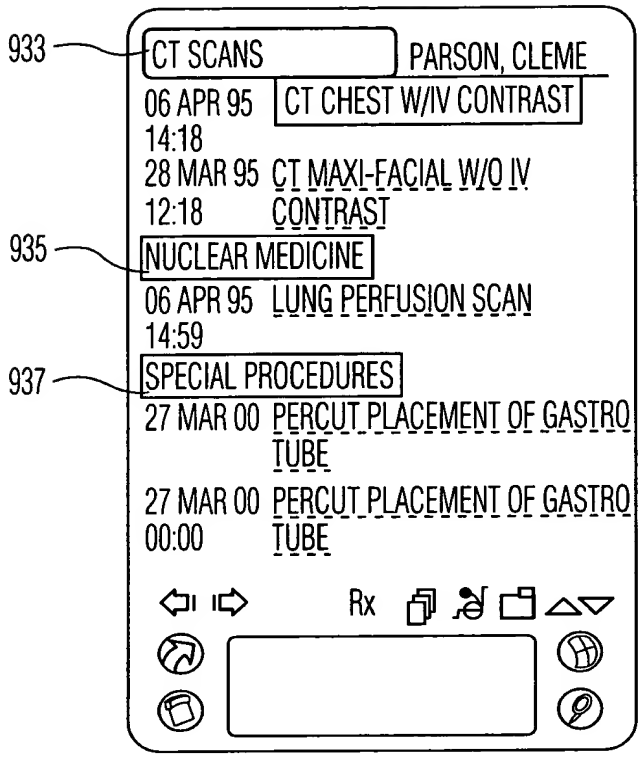

FIG. 13

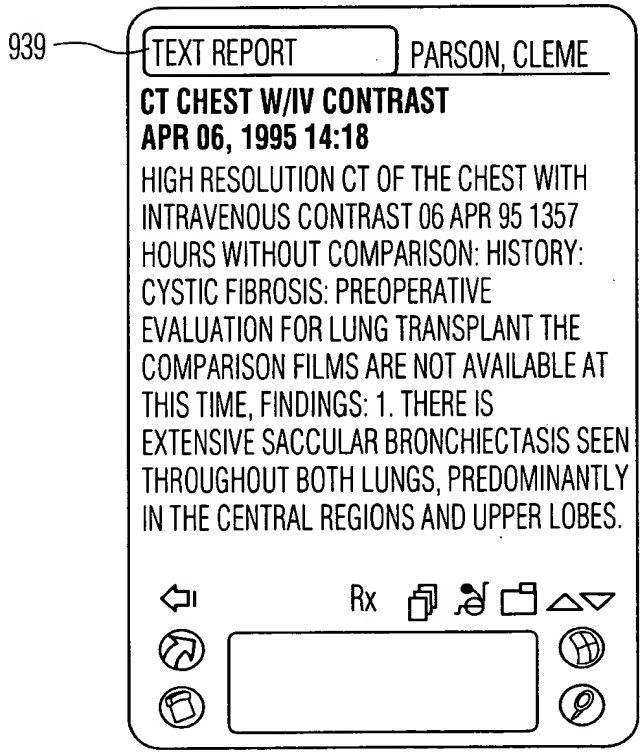

FIG. 14

EP 1 355 256 A2

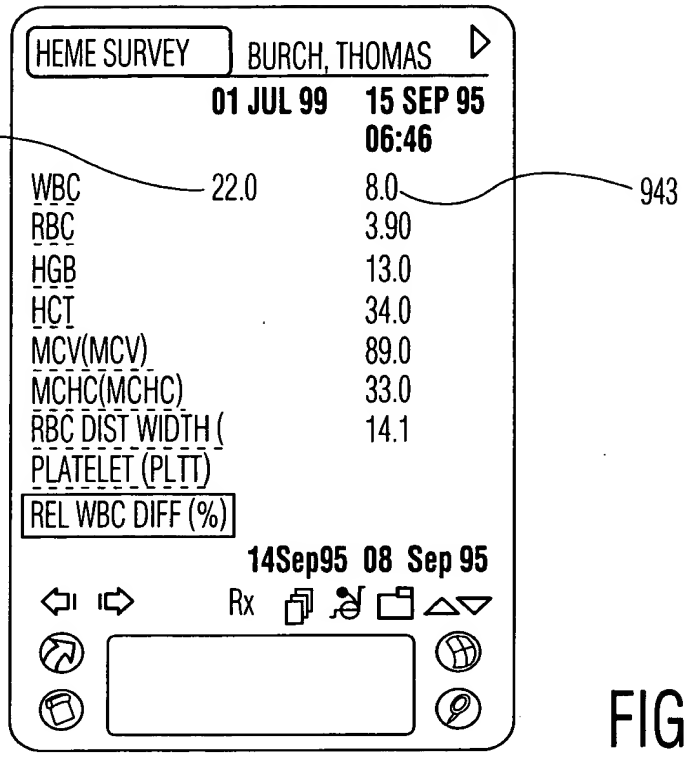
HEME SURVEY
BURCH, THOMAS
01 JUL 99
15 SEP 95
06:46
941
WBC 22.0 8.0
943
RBC 3.90
HGB 13.0
HCT 34.0
MCV(MCV) 89.0
MCHC(MCHC) 33.0
RBC DIST WIDTH (14.1
PLATELET (PLTT)
REL WBC DIFF (%)
14Sep95 08 Sep 95
Rx

FIG. 15

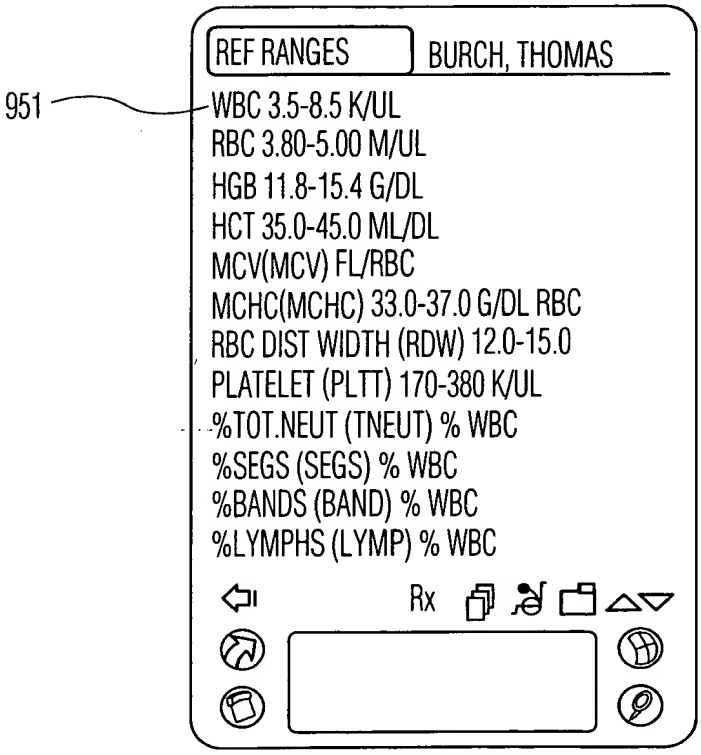
REF RANGES
BURCH, THOMAS
951
WBC 3.5-8.5 K/UL
RBC 3.80-5.00 M/UL
HGB 11.8-15.4 G/DL
HCT 35.0-45.0 ML/DL
MCV(MCV) FL/RBC
MCHC(MCHC) 33.0-37.0 G/DL RBC
RBC DIST WIDTH (RDW) 12.0-15.0
PLATELET (PLTT) 170-380 K/UL
%TOT.NEUT (TNEUT) % WBC
%SEGS (SEGS) % WBC
%BANDS (BAND) % WBC
%LYMPHS (LYMP) % WBC
Rx

FIG. 16

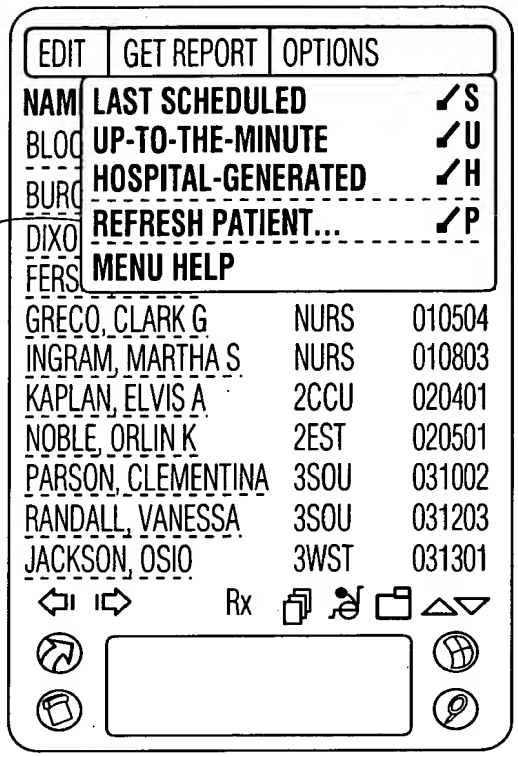

FIG. 17A

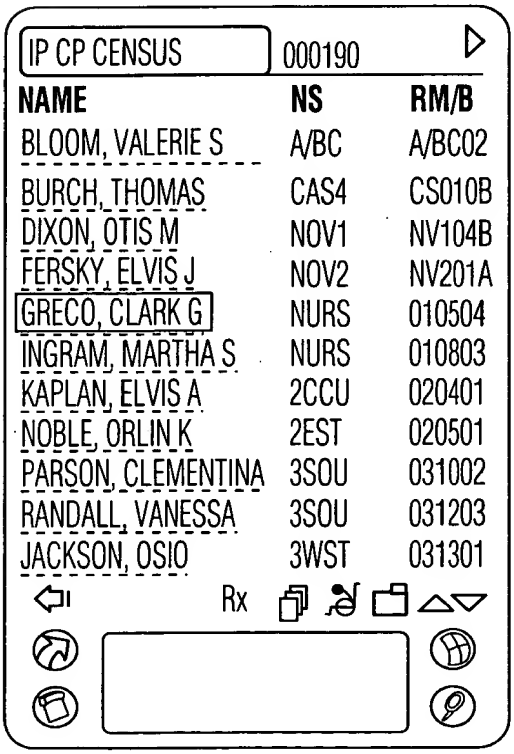

FIG. 17B

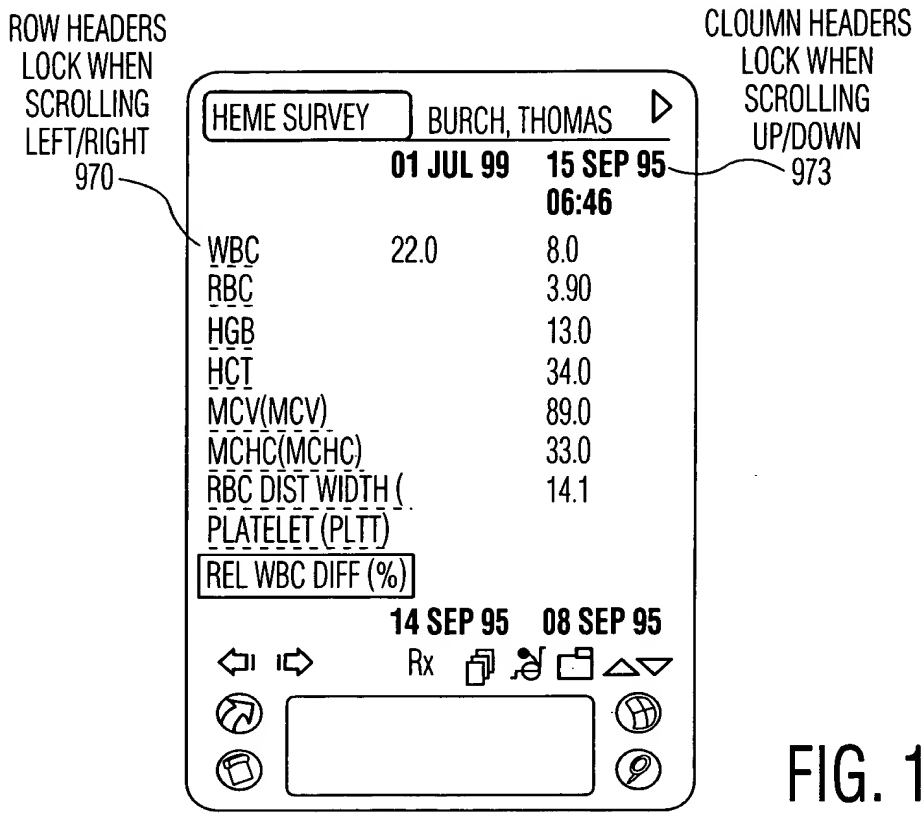
ROW HEADERS LOCK WHEN SCROLLING LEFT/RIGHT 970
CLOUMN HEADERS LOCK WHEN SCROLLING UP/DOWN 973
HEME SURVEY
BURCH, THOMAS
01 JUL 99
15 SEP 95 06:46
WBC 22.0 8.0
RBC 3.90
HGB 13.0
HCT 34.0
MCV(MCV) 89.0
MCHC(MCHC) 33.0
RBC DIST WIDTH (14.1
PLATELET (PLTT)
REL WBC DIFF (%)
14 SEP 95
08 SEP 95
Rx

FIG. 18

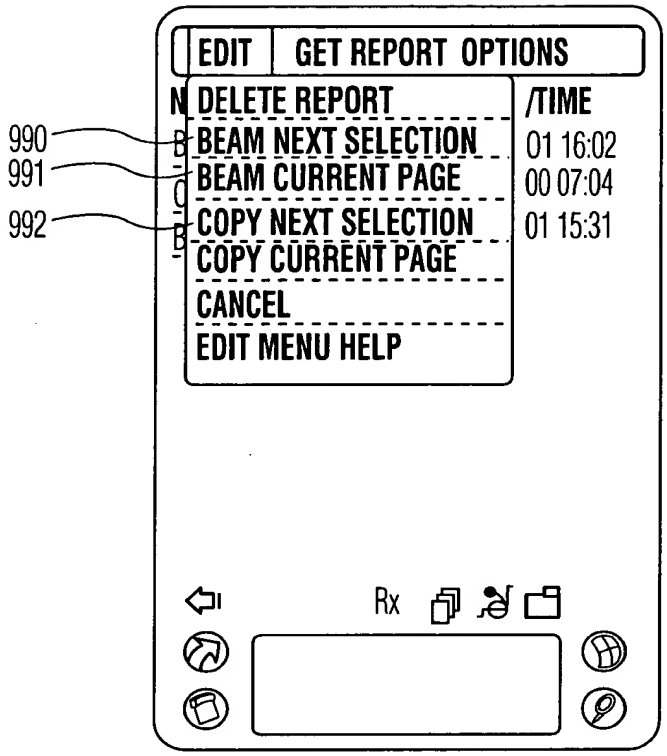

FIG. 19

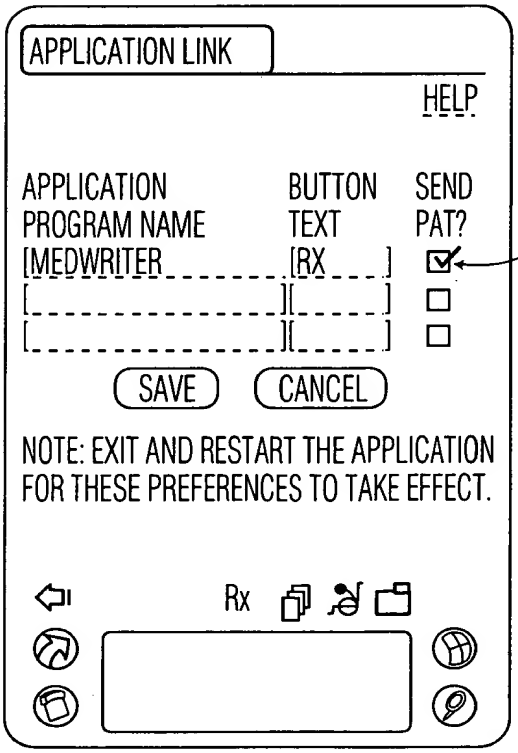

FIG. 20A

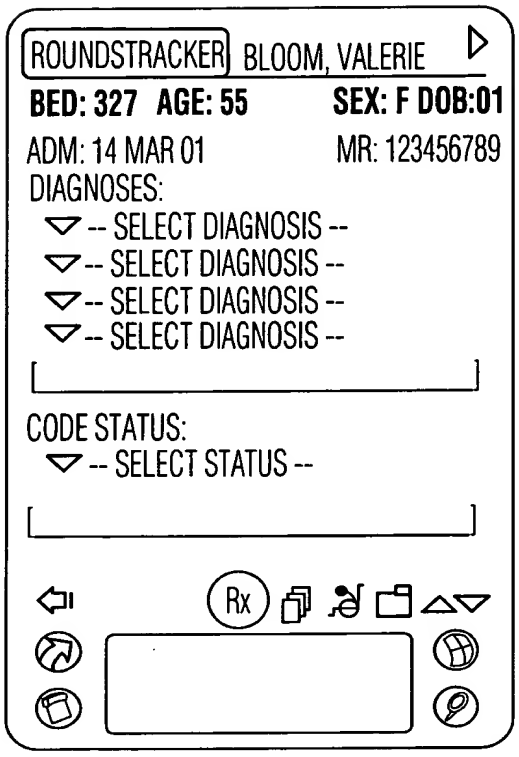
ROUNDSTRACKER
BLOOM, VALERIE
BED: 327 AGE: 55
SEX: F DOB:01
ADM: 14 MAR 01
MR: 123456789
DIAGNOSES:
-- SELECT DIAGNOSIS --
-- SELECT DIAGNOSIS --
-- SELECT DIAGNOSIS --
-- SELECT DIAGNOSIS --
CODE STATUS:
-- SELECT STATUS --
Rx

FIG. 20B